

## Introduction:-

In this project, I have created a pie chart and bar chart representation by taking data of different pet animals. This data is shown by a pie chart representation. Pie and Bar Charts are a useful way of showing data.

This project is useful for representation of different data collections and this can be easily understandable. Here I'm just taking an example of a data from a survey of favourite pets which was done by voting in a very small group of people.

## **Step 1: Collection of Data**

Write a list of pets and make sure everyone's favourite is included.

Then get everyone to vote for their favourite by putting their hand up when it gets called out. Only one vote each.

### **For Example:**

Dog – 3

Cat – 6

Cow – 8

Rabbit – 2

Horse – 1

The above example is a survey of 20 people who vote their favourite pets.

## Step 2: Creating of Pie Chart

- Open the blank Python compiler.
- Let's create a pie chart to show the results of the above survey. This will be done by using the pygal library function.
- First import the Pygal library:

```
import pygal
```

- Now let's create a Pie chart and render (display) it:

```
import pygal
```

```
piechart = pygal.Pie()
```

```
piechart.render()
```

- Let's add in the data for one of the pets. Use the data that is collected.

```
import pygal
```

```
piechart = pygal.Pie()
```

```
piechart.add('Dog',3)
```

```
piechart.render()
```

- Now add the rest of the data in the same way.

```
import pygal
```

```
piechart = pygal.Pie()
```

```
piechart.add('Dog',3)
```

```
piechart.add('Cat',6)
```

```
piechart.add('Cow',8)
```

```
piechart.add('Rabbit',2)
```

```
piechart.add('Horse',1)
```

```
piechart.render()
```

- And to finish off your chart, add a title:

```
import pygal
```

```
piechart = pygal.Pie()
```

```
piechart.title = 'Favourite Pets'
```

```
piechart.add('Dog',3)
```

```
piechart.add('Cat',6)
```

```
piechart.add('Cow',8)
```

```
piechart.add('Rabbit',2)
```

```
piechart.add('Horse',1)
```

```
piechart.render()
```

## Step 3: Creating of Bar Chart

- Open the blank Python compiler.
- Let's create a bar chart to show the results of the above survey. This will be done by using the pygal library function.
- First import the Pygal library:

```
import pygal
```

- Now let's create a Bar chart and render (display) it:

```
import pygal
```

```
barchart = pygal.Bar()
```

```
barchart.render()
```

- Let's add in the data for one of the pets. Use the data that is collected.

```
import pygal

barchart = pygal.Bar()

barchart.add('Dog',3)

barchart.render()
```

- Now add the rest of the data in the same way.

```
import pygal

barchart = pygal.Bar()

barchart.add('Dog',3)

barchart.add('Cat',6)

barchart.add('Cow',8)

barchart.add('Rabbit',2)

barchart.add('Horse',1)

barchart.render()
```

- And to finish off your chart, add a title:

```
import pygal

barchart = pygal.Bar()

barchart.title = 'Favourite Pets'

barchart.add('Dog',3)

barchart.add('Cat',6)

barchart.add('Cow',8)

barchart.add('Rabbit',2)
```

```
barchart.add('Horse',1)  
barchart.render()
```

## Output Result:

### **Code 1-**

```
import pygal  
  
piechart = pygal.Pie()  
  
piechart.title = 'Favourite Pets'  
  
a=int(input("enter number of Dogs"))  
  
b=int(input("enter number of Cats"))  
  
c=int(input("enter number of Cows"))  
  
d=int(input("enter number of Rabbits"))  
  
e=int(input("enter number of Horses"))  
  
piechart.add('Dogs',a)  
  
piechart.add('Cats',b)  
  
piechart.add('Cows',c)  
  
piechart.add('Rabbits',d)  
  
piechart.add('Horses',e)  
  
piechart.render()
```

## Code 2-

```
import pygal

barchart = pygal.Bar()

barchart.title = 'Favourite Pets'

a=int(input("enter number of Dogs"))

b=int(input("enter number of Cats"))

c=int(input("enter number of Cows"))

d=int(input("enter number of Rabbits"))

e=int(input("enter number of Horses"))

barchart.add('Dogs',a)

barchart.add('Cats',b)

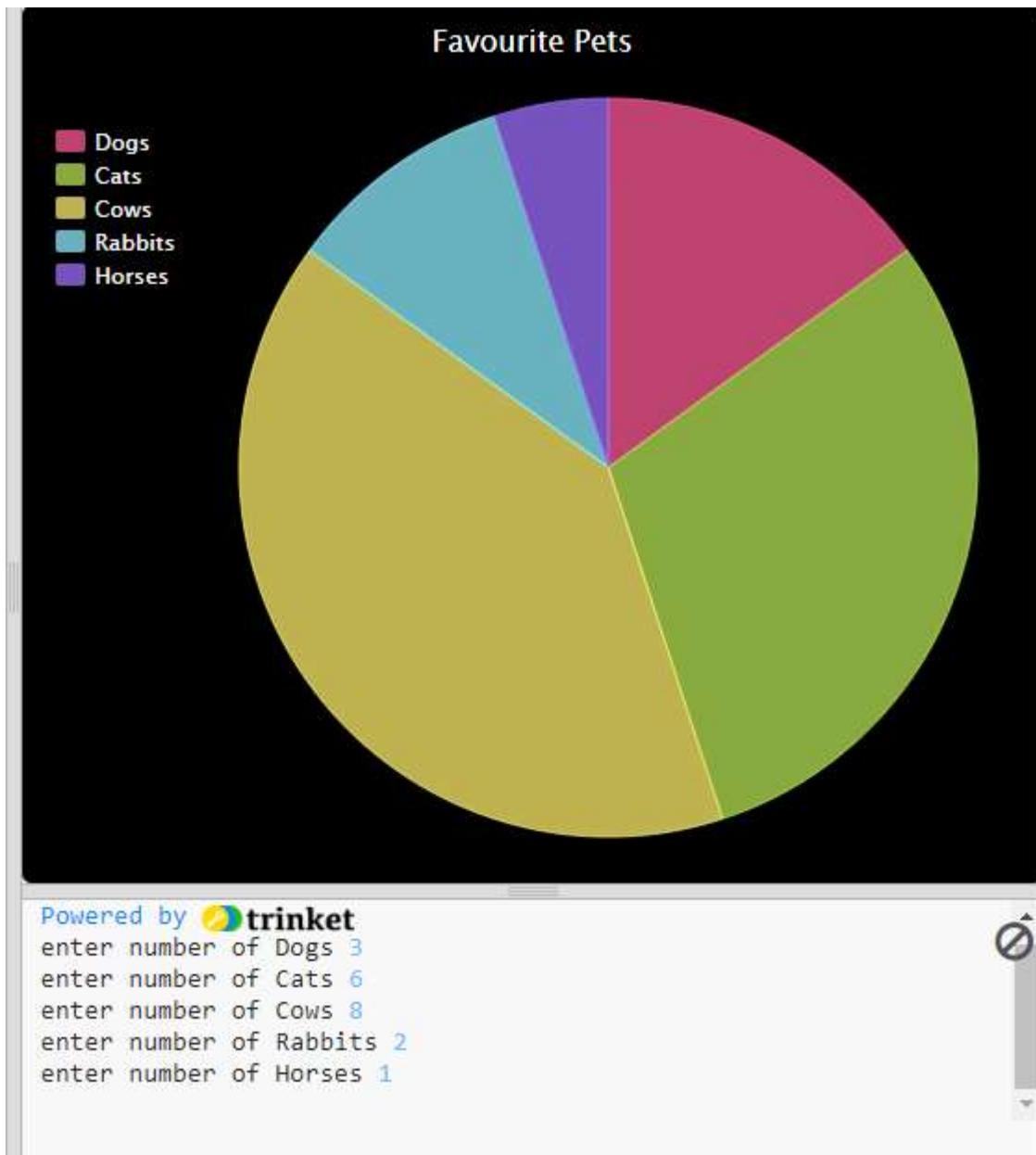
barchart.add('Cows',c)

barchart.add('Rabbits',d)

barchart.add('Horses',e)

barchart.render()
```

## Output 1-



## Output 2-

